

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2022/0008837 A1 Kamen et al.

Jan. 13, 2022 (43) **Pub. Date:**

(54) WATER VAPOR DISTILLATION APPARATUS, METHOD AND SYSTEM

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(21) Appl. No.: 17/199,841

(22) Filed: Mar. 12, 2021

Related U.S. Application Data

- (63) Continuation of application No. 16/017,458, filed on Jun. 25, 2018, now Pat. No. 10,946,302, which is a continuation of application No. 14/080,176, filed on Nov. 14, 2013, now Pat. No. 10,005,001, which is a continuation of application No. 13/311,227, filed on Dec. 5, 2011, now Pat. No. 8,584,472, which is a continuation of application No. 12/135,035, filed on Jun. 6, 2008, now Pat. No. 8,069,676, which is a continuation-in-part of application No. 11/480,294, filed on Jun. 30, 2006, now Pat. No. 8,366,883.
- (60) Provisional application No. 60/933,525, filed on Jun. 7, 2007.

Publication Classification

(51)	Int. Cl.	
` ′	B01D 3/00	(2006.01)
	B01D 1/28	(2006.01)
	B01D 5/00	(2006.01)

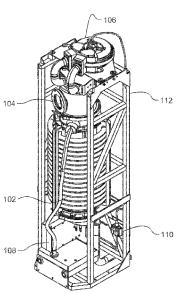
B01D 45/08	(2006.01)
C02F 1/04	(2006.01)
C02F 1/16	(2006.01)
F04D 23/00	(2006.01)
F04D 25/02	(2006.01)
F04D 29/02	(2006.01)
F04D 29/057	(2006.01)
F04D 29/063	(2006.01)
F04C 19/00	(2006.01)
F04D 13/06	(2006.01)

(52) U.S. Cl. CPC **B01D 3/00** (2013.01); F05D 2300/512 (2013.01); **B01D** 5/006 (2013.01); **B01D** 45/08 (2013.01); C02F 1/048 (2013.01); C02F 1/16 (2013.01); F04D 23/008 (2013.01); F04D 25/026 (2013.01); F04D 29/023 (2013.01); F04D 29/057 (2013.01); F04D 29/063 (2013.01); F04C 19/002 (2013.01); F04D 13/06 (2013.01); Y02W 10/37 (2015.05); F05D 2300/43 (2013.01); B01D

1/28 (2013.01)

(57)ABSTRACT

A fluid vapor distillation apparatus. The apparatus includes a source fluid input, and an evaporator condenser apparatus. The evaporator condenser apparatus includes a substantially cylindrical housing and a plurality of tubes in the housing. The source fluid input is fluidly connected to the evaporator condenser and the evaporator condenser transforms source fluid into steam and transforms compressed steam into product fluid. Also included in the fluid vapor distillation apparatus is a heat exchanger fluidly connected to the source fluid input and a product fluid output. The heat exchanger includes an outer tube and at least one inner tube. Also included in the fluid vapor distillation apparatus is a regenerative blower fluidly connected to the evaporator condenser. The regenerative blower compresses steam, and the compressed steam flows to the evaporative condenser where compressed steam is transformed into product fluid.



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